



Service/Product Provider

Intelligent Energy Optimizers LLC (IEO)

450 S. Cemetery Street, # 202
Norcross, GA 30071

Business: Design and optimization of lighting systems

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President and CEO

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Industrial Partner

Kimberly Clark Group

32 Smyth Ave
Hendersonville, NC 28792

Business: Fabric woven mill

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Project Electrical Engineer

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IEO provides lighting design and build for Kimberly Clark Berkley Mill, saving \$160,000 annually

Project Scope

Design, develop, supply and install LED lighting to replace the existing fluorescents and HID's at the Kimberly Clark Berkley Mill.

Project Summary

IEO performed a complete design, and supplied and installed 7,000 OptioLED T8 retrofits for the plant and parking area. The project was completed in 2015.

- **Energy Savings**
\$160,000 annually
- **Investment**
\$350,000 by owner
- **Financial Return**
Return on investment of just over one and one-half years, after \$93,000 utility rebate.
- **Other Benefits**
The lifespan of the OptioLEDs is 50,000 hours, while the fluorescent T8 lifespan is around 15,000 hours; thus, maintenance was reduced by nearly 75%. Savings on the HVAC consumption were also achieved due to a reduced operating temperature of the OptioLED of 87°F, compared to the fluorescents at 138°F. Lighting levels at the plant improved substantially.

Monitoring & Verifying Energy Savings

Savings were estimated by IEO prior to the project by comparing Wattages of the existing and proposed technologies. Savings were later verified by comparing total kW and kWh before and after installation, confirming the pre-project cost-saving estimates.

Distinguishing Value

From Kimberly Clark Group: IEO has provided excellent service tailored to our specific needs. Their technical knowledge maximized our energy savings and has enhanced the appearance and maintenance of the lighting system. Their ability to offer a wide range of products and keep up with the latest technology sets them apart from the competition.